

## ABSTRACT

A cap device for bottles, which smoothly and naturally removes a vacuum pressure from a cavity containing an additive therein by opening a valve cock in response to a rotating action of a cap body. The cap device having a cap body provided with a cavity to contain an additive therein  
5 cap body. The cap device having a cap body provided with a cavity to contain an additive therein and tightened to an externally threaded mouth of a bottle. A funnel part being integrally formed in the cap body to discharge the additive from the cavity into the bottle through a lower end thereof. A small vent hole being formed at a top surface of the cap body. A breakable sheet being attached to the lower end of the funnel part to close the lower end of the funnel part. A valve cock being  
10 provided at the vent hole of the cap body to open or close the vent hole. A projection being provided at a predetermined position on a top edge of the mouth of the bottle to thrust and open the valve cock with downward rotation of the cap body. The cap device also having a valve means having a structure capable of allowing a liquid to pass therethrough. The valve means being placed in a neck of the bottle, such that the valve means thrusts and breaks the breakable sheet when the  
15 cap body is rotated to move downward relative to the mouth of the bottle.